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INTEGRATED BUSINESS SYSTEM ANNOUNCED

The Integrated Business System, a comprehensive family of eight business and accounting applications, was announced by Compucorp. The system is intended for use on the company's 625 and 665 business information and word processors.

The applications comprising IBS fall into two groups: a "basic" group of five, which consists of General Ledger, Accounts Receivable, Accounts Payable, Payroll, and Inventory Control, and an "enhancement" group of three, including Sales Order Entry, Purchase Order Entry, and Job Cost Management. General Ledger and Accounts Receivable are currently available for installation. Accounts Payable, Payroll, and Inventory Control are scheduled for release before the end of the year. The enhancement group is projected for first quarter 1980 release.

IBS is aimed at small businesses, typically those with sales volume of up to $20 million. In particular, the system is directed at first-time users, customers who have not previously owned a business information system.

The applications, designed in a modular fashion, operate in either a stand-alone or integrated fashion. (Application modules in the "enhancement" group can be operated individually but are most effective when integrated with other modules in the "basic" group.) The system is intended to serve as wide a variety of businesses as possible. For example, Accounts Receivable supports both open-item and balance-forward customers. Payroll handles multiple-state employees and a complete variety of payroll modes (weekly, biweekly, semi-monthly, monthly, etc.).

Compucorp's director of product management, Tom Budlong, predicts the most frequent user of IBS will be the small businessman who is having problems. "His statements are late every month and he doesn't know why," says Budlong. "He can't respond adequately to customer service requests. He doesn't know who owes him money, how much they owe him, or for how long. Cash flow is poor. He isn't charging finance charges because the calculations are too complex and time-consuming when done manually. He hasn't got the proper customers on credit hold. And so on."

IBS has been designed to be exceptionally user-oriented. "We don't expect our customers to have much—if any—knowledge of data processing and computers," Budlong said. "We've developed the system in such a way that operators need possess only a knowledge of standard bookkeeping procedures. That is, how money is received, how people are paid, how accounts are posted, and so on. The same people who are now performing these functions manually in the customer's office can be trained quickly and easily to operate IBS."

The system design recognizes the inevitability of human error and operates in virtually a fail-safe fashion. All data entered into the system goes first into a Transaction File. From there, it can be modified, displayed, printed, or deleted. Once the user is satisfied that the data is accurate and he has printed the relevant reports, he uses the Transaction File to update all master files in the respective applications.

The Integrated Business System is sold only through licensed, authorized Compucorp dealers. Software is furnished on floppy diskettes. Each application diskette is accompanied by a comprehensive operator's manual and technical reference manual.

"We've developed the applications," said Budlong, "with the growth of our systems in mind. We expect to be moving in the direction of greater storage capacity and faster processing capability."

Summary of Application Functions:

The General Ledger application module accepts detailed information from the General, Sales, Purchases, Payroll, Cash Receipts, and Cash Disbursements Journals. It produces the Trial Balance Report, the General Ledger, the Income Statement, and the Comparative Balance Sheet. Data can be entered manually or automatically through the integration of General Ledger with other application modules.

The Accounts Receivable system processes invoices, credits, and payment transactions. It produces invoices, statements, and sales and management reports.

The Accounts Payable application processes vendor invoices and produces accounts payable checks, check registers, and distribution summaries.

The Payroll application processes multiple-rate, multiple-state, salaried, and/or hourly employees. It produces paychecks with detailed check stubs, a check register, and summarized distribution reports. Data is entered periodically from timecards for hourly employees.

Inventory Control processes receiving, withdrawal, and adjustment transactions to maintain inventory balances in the Product File. It produces stock status, inventory cost, and re-order reports, including detailed transaction summaries.

When Sales Order Entry is integrated with Accounts Receivable and Inventory Control, the user can enter customer orders and allocate available inventory to them. The system generates inventory picking slips to facilitate filling orders. Shipped items are automatically posted to Accounts Receivable for immediate invoicing. The application provides full open sales order reporting by customer and by product and prints sales orders.

The Purchase Order Entry application is most effective when interfaced with Accounts Payable and Inventory Control. It processes purchase orders and material receipt transactions which update inventory balances, and passes completed purchase order data to the Accounts Payable application for automatic payment. The system provides open order reporting by product and/or vendor and prints detailed receiving reports. The application also prints purchase orders.

The Job Cost Management application can be interfaced with Accounts Payable and Payroll. It processes expense, material, and labor transactions coming from Payables and Payroll and from manual cost entries. It produces a Job Status Report, showing detail and summaries of planned and actual expenditures by expense classification. □

COMPUCORP PRESIDENT EASTON SEES

Omega 60 full-page word processor, shown with additional, 20-line CRT for viewing second document.

COMPUCORP ANNOUNCES OMEGA WORD PROCESSOR AT IWP FALL SYMPOSIUM

A new word processor family, the Omega, was announced by Compucorp at the IWP Fall Symposium this week. Two versions of the product—the Omega 20 and the Omega 60—are being offered initially.

The two models differ only in their display characteristics. The Omega 20 features a standard 20-line CRT display with oversize white characters on a black background. The Omega 60 incorporates a 60-line, full-page screen and provides a number of display features not available on the Omega 20, including underlining, boldface highlighting, subscripts and superscripts, margin lines, end-of-page marker lines, and toggle-switch control

Among Omega's other text editing capabilities are powerful block operations (including move, copy, delete, print, save, and recall), automatic search and replace (next occurrence only or global), paragraph assembly, and the ability to set tabs for any character specified by the user, including the decimal point.

Whenever a document is created or accessed for editing, Omega stores critical status information about the document, including the date and time of access. Complete document status can be displayed or printed at the touch of a button. The titles of the documents stored on a diskette are kept in an index which can also be quickly displayed or printed. Omega allows the storage of

CROSSING OF WP/DP LINES

In a recent interview, Elmer Easton, president of Compucorp, the Los Angeles-based manufacturer of word and data processors, predicted an increased blurring of the lines between word processing and data processing.

"The two are going to blend more and more," Easton said. "We've seen this at recent shows, in articles in trade journals, and in advertisements by many of the major vendors. It just doesn't make sense for a customer to have different types of computers in his office—one for WP, one for small business and accounting applications, and one for data processing and custom programs—if he can manage all these functions on one machine."

As a customer's processing requirements increase, Easton noted, the next step is adding more storage to existing equipment and/or acquiring additional systems of the same type.

"As companies grow and acquire more of this mixed capability," Easton said, "they create an environment in which all automated functions can be performed on all systems. This gives true flexibility." The line between WP and DP will disappear completely, Easton said, when file structures are the same for both. This will enable users to perform WP operations on DP files and vice versa.

Future of WP

The word processor, Easton believes, is fast supplanting the copier as the most indispensable office tool. "Copiers are not purchased in proportion to the number of people in an office in the same way word processors are," he said. "Word processors are, in many cases, a one-to-one tool. Every secretary or group of secretaries can justify having a system. Essentially, word processors are beginning to replace typewriters. This is happening in our own offices at Compucorp."

Regarding the direction of word processor product development, Easton commented, "Word processors are really special-purpose computers. Capabilities once thought of only as falling within the DP domain are now being marketed—and properly so—as WP capabilities. A good example of this on the Compucorp systems is what we call the 'selective-attribute mailing list/merge.' This allows the user to store data on individuals or companies in a mailing list according to a large number of characteristics—15, 20, virtually as many as are needed. He can then select these individuals or companies for processing on the basis of any single characteristic or any combination of characteristics. This is a perfectly legitimate function for a word processor, especially if the user then sends letters to the selected names or prints a list of them."

Easton predicts a dual developmental course for word processors. "They will become both more simple and more complex at the same time. Features will be more extensive and more elegantly implemented. Editing features which were cumbersome yesterday are easier today and will be even easier tomorrow. At the same time, they are becoming far more inclusive.

"There are functions we wouldn't even have tried to implement on a word processor in the past; today, they are relatively easy. For example, many early word processors had no mailing list/merge capability. It was considered too complex. Today, from the user's standpoint, it's a very simple operation. Such complex processing will become easier and more prevalent as time goes on."

Which Features Are Best?

Easton noted that every manufacturer of WP equipment has a slightly different notion of what the public really wants. "Every vendor," he said, "wants to come out with features that are different, exclusive, ahead of the competition. Five years ago, when most word processors were hardwired, making enhancements and modifications was exceedingly difficult, almost impossible in the practical sense. That's not the case today. New features can be installed in a matter of seconds.

"We hear customers say that what they want, ideally, is a supermarket approach to word processing, permitting them to order up the features they want from a list of those available. We believe, however, that if all the bells and whistles on all machines were added together in one system, it would be a nightmare to operate, to learn, to program, and to maintain. And there wouldn't be much room left for text storage.

"Our feeling," Easton said, "is that as time goes on, word processors will become more specialized, in an application sense. They may not be called by different names, but they'll be categorized according to their use—for accountants, lawyers, engineers, and so on. As the public becomes more knowledgeable, they'll be able to identify their requirements more clearly and demand systems which offer just the features they need."

Elmer Easton, president of Compucorp

Compucorp's Entry Into WP

Compucorp decided to enter the WP marketplace, Easton said, despite the dozens of vendors already in the business. "We've been in the computation business for more than ten years," he said, "and we've always looked upon it as the 'problem-solving business.' It's a natural evolution for us to extend into the WP business from DP. It's a somewhat different direction from many other companies, who are going the other way—from WP to DP. In fact, since there will always be more word processors than data processors, perhaps by a factor of ten or more, it won't be surprising if, at future DP shows, every vendor offers a word processing capability. It's only a matter of time before the WP tail begins wagging the DP dog, as it were."

In the pricing arena, Easton said, the products currently on the market range from about $8,000 to as much as $100,000 and more, depending on system size. "It's our intention to develop a family of products," Easton said, "covering virtually the entire existing price range. We want to be able to pull out of our goody bag the system that best fits the customer's requirements, not vice versa—that is, try to force the customer into buying a particular machine because it happens to be the only one available."

Compucorp word processors are sold only by authorized Compucorp dealers throughout the U.S., Canada, and 35 other countries. "Today," Easton said, "we have about 40 dealers in the U.S. and Canada. We are waging an extensive dealer recruitment campaign which we hope will expand our dealer organization to about 200 by the end of 1980.

Easton waved off the possibility of Compucorp going direct. "We're committed to the dealer organization," he said. "These people are entrepreneurs and operate on incentives that just can't be duplicated in a branch office. In many cases, they have built up their companies from a one-person operation into a sizable business. That's the way we started and that's the orientation we expect to keep."

Regarding service, Easton commented: "We require that as conditions of becoming a Compucorp dealer, an adequate supply of spare parts be maintained and all service personnel be thoroughly trained in the operation and maintenance of Compucorp systems. Dealers and their employees attend periodic training classes on a continuing basis. We believe in dealer service. We don't believe in asking a customer to go to a third party, someone who didn't sell the product in the first place and therefore feels less responsibility to keep it running."

Advice to Prospective Users

When asked what advice he would give to an organization considering the purchase of WP equipment, Easton cited acquiring a knowledge of the organization's paper flow, volume, and procedures as the first and most important step. "Ask yourself what kinds of documents are produced, how long they are, who generates them, how they get distributed, and who they go to. Don't limit your study to current activity; look into the future and list upcoming requirements as well.

"Then call in the representatives of three or four vendors and ask them how they can meet your needs. Look at their products. If they they can't bring a system to you for demonstration, visit an existing installation. Then sit down and reevaluate your requirements. Put together a written specification. And list the factors that are central to your decision: features, price, service, vendor reputation, and so on. Have the vendors review and respond to your specifications. Out of their responses, you should be able to select the best of the systems you've looked at." □

of background color (reversing from black to white). Users can change displays in seconds by unplugging one from the base unit and plugging in the other.

The desk-top "Omega-Mates" incorporate 60 kilobytes of semiconductor memory and use two single-sided mini-floppy diskettes for data storage. Users may specify single-density (80 pages of storage per diskette) or dual-density (about 152 pages of storage) diskette drives when ordering. Up to 20 million bytes of rigid-disk storage (two ten-megabyte cartridges) are also available as an option.

Among the Omega's most powerful features is the choice it offers users to operate in either "insert" or "replace" mode. In insert mode, text can be added without disturbing existing material, which moves downward and out of the way. At the touch of a button, the user may switch to replace mode, which allows text to be replaced without moving surrounding material.

Versatile character, word, line, and paragraph text unit keys allow the user to delete unwanted text, moving in any direction through the document. Omega's cursor controls offer the user virtually instantaneous document positioning ability. Four directional arrows provide the standard vertical and horizontal scrolling movements. However, since all keys on the Omega keyboard are repeat keys, continued pressure on any one of the arrows will provide very rapid movement in the direction indicated. The user may scroll vertically through documents as large as the diskette and horizontally across 255 characters. The user may also move forward or backward a word at a time as well as up or down a full screen at a time. A HOME key allows movement to the beginning or end of the current line. Pressing the HOME key twice in succession, followed by either UP or DOWN arrow, enables the user to move quickly to the beginning or end of the document. A ten-key pad is included in the keyboard.

The document-oriented Omega provides continuous on-screen page-numbering and character and line position information to the operator. While looking at a document, the operator also sees an edit ruler across the top of the screen, showing every character location in "ruler" fashion, the left and right margin location, the type and location of all tabs, the hot zone, and a "ghost" cursor.

multiple formats within a document and will display them on command. When entering centered material, text is centered as it is typed. Omega "remembers" right and left indents until commanded otherwise and allows reformatting single paragraphs, single pages, or the entire document (a process which can be interrupted at any time from the keyboard).

Omega supports a variety of popular printers, including the NEC 5510 and 5520, the Diablo 1640 and 1650, the Qume Sprint 5, and other ASCII-serial printers, such as the Texas Instruments 810. Omega provides overstrike control, underlining, bold, and bidirectional printing on the NEC, Diablo, and Qume printers. It enables the user to print in the background from a print queue of virtually any number of documents. Other printing features include variable pitch (10, 12, and 15), variable line spacing (single, line and half, and double), page number location and start/stop control, headers and footers, left edge control, number of copies control, and print interrupt capability, either temporary or permanent.

Based on Compucorp's Model 655/665 business information system, Omega performs data processing operations ranging from accounting and business applications (utilizing, if desired, Compucorp-provided software) to custom programming in extended BASIC. Omega also offers an easy to use forms fill-in capability, allowing fields of any length and the specification of data type for each field. The Omega selective-attribute mailing list/merge capability enables users to create free-form mailing lists with any number of fields containing any type of data, then merge the entries with another document. Fields in the mailing list can be used in any order and as many times as necessary. The user may specify mailing list records for processing through easy-to-enter selection criteria. There is no limit on the number of criteria that may be used.

Omega is sold only by licensed, authorized Compucorp dealers in the U.S., Canada, and 35 other countries. Service is provided by the dealer.

Compucorp has been a leading manufacturer of computational equipment and desk-top business information systems since 1968. They are headquartered in Los Angeles. □

OMEGA 60'S NEW FULL-PAGE DISPLAY: LAST WORD IN CRT TECHNOLOGY

In developing its full-page display option for the new Omega word processor, Compucorp's design objectives went beyond a screen that would merely display a full page of text. The goal was to develop a product that would duplicate the final printed document as nearly as current CRT technology would allow. The display had to be easily readable and contain extensive document preparation and editing aids. Without a doubt, Compucorp has achieved its goal.

Background Color

Faced with the decision of whether to provide a display with the traditional white characters on a black background or one more like an actual piece of paper, with black characters on a white background, Compucorp designers opted to let the operator have the choice. Thus, both technologies were incorporated into the display. A simple toggle switch at the rear of the CRT allows the operator to reverse the screen image at any time, even while editing operations are in process.

Text Editing Information on Screen

The Omega 60's display circuitry allows each of the possible 4,800 characters in the screen format (80 columns across, 60 lines down) to be displayed simultaneously and in a number of ways. The top three lines are reserved for the edit "ruler," a highlighted zone running across the width of the screen and showing every character position on a line (in "ruler" fashion), the location of the right and left margins, the width of the hot zone, and type and location of all tabs.

In the top right segment of the ruler area are three counters, showing page number and character and line positions on the page. These counters are always visible and indicate the operator's present cursor position. The area to the left of the counters is used for prompts and other messages to the operator. This still leaves 57 lines of space available for text, more than is normally placed on a single page.

"As-Printed" Text Presentation

Additional circuitry incorporated in the display permits the operator to view document text virtually as it will appear later when it is printed. The screen displays underlining, superscripts and subscripts, and boldface text (through highlighting). If the operator has specified justification in the document format, the screen displays the text in its justified format. Guesswork regarding the final appearance of the document is eliminated.

Additional Editing Aids

To increase editing efficiency even further, the Omega 60 full-page display provides a margin-line option, permitting the operator to display left and right vertical lines in the correct margin positions. These lines automatically adjust to wide and narrow paragraphs, as the document is scrolled up and down on the screen.

Also provided is an end-of-page line, indicating clearly the position chosen automatically by the system to end a page. Since Omega is a document-oriented system, however, the operator may change page endings at will. With the addition, deletion, and movement of blocks of text within a document, the system automatically adjusts page boundaries and on-screen indicators accordingly. There is never a need to print the document merely to determine what the pagination will look like.

Four-Way Scrolling

The full-page display permits the operator to scroll in four directions: up and down, a line or a full screen at a time, and left and right, a character at a time. Documents as wide as 255 characters are easily accommodated, with the page image shifting left gradually as the cursor reaches the right side of the screen.

The Compucorp display is thus a "floating window," always showing a significant portion of the document and providing extensive status information to reduce document preparation and editing time considerably. □

OMEGA: BUILT FOR PLUG-IN FLEXIBILITY AND GROWTH

The new Compucorp Omega family of word processors offers users an unparalleled degree of flexibility and growth potential. Modular system design allows system expansion to occur directly at the customer site.

Omega is available in two versions: the Omega 60 which features a full-page 60-line display, and the lower cost Omega 20, which features a half-page 20-line display. Omega 60 incorporates a number of on-screen capabilities not found in Omega 20. These include the display of underlining, boldface highlighting, subscripts and superscripts, both margin and end-of-page marker

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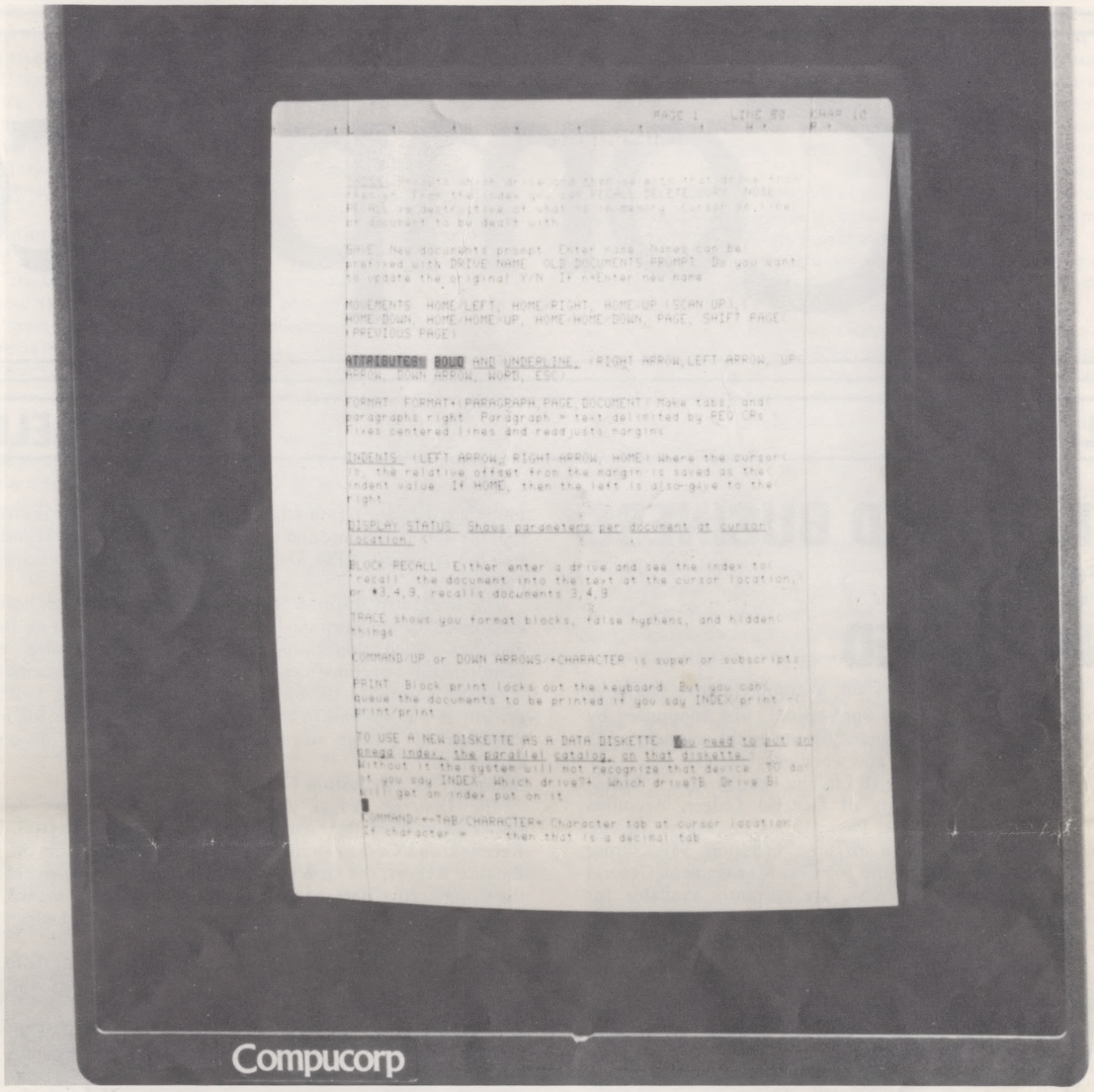
OMEGA FEATURES AND SPECIFICATIONS

NORMALLY mod 1 655 does NOT have spelling cap. but 655 Special does.

WORD PROCESSING FEATURES

	Omega 20	Omega 60
SYSTEM CONFIGURATION		
Configuration	Keyboard, CRT, CPU/dual diskette console, printer	Keyboard, CRT, CPU/dual-diskette console, printer
Memory Size	60K	60K
Storage Media	Dual mini-diskette	Dual mini-diskette
Storage Capacity	160K (80 pp.) or 315K (160 pp.) chars./diskette; rigid disk optional (1 or 2 10-megabyte removable cartridges); additional external dual-diskette drive optional on 315K models only.	160K (80 pp.) or 315K (160 pp.) chars./diskette; rigid disk optional (1 or 2 10-megabyte removable cartridges); additional external dual-diskette drive optional on 315K models only.
DISPLAY STATION FEATURES		
Screen Size & Type	12″ diagonal CRT	15″ diagonal CRT
Format & Capacity	20 lines X 80 chars.	60 lines x 80 chars.
Character Generation	10 x 12 matrix	10 x 13 matrix
Cursor Positioning	Left, right, up, down, home left, home right, page start, page end, document start, document end, screen up, screen down	Left, right, up, down, home left, home right, page start, page end, document start, document end, screen up, screen down
Vertical Scrolling	Standard	Standard
Horizontal Scrolling	Standard to 255 chars.	Standard to 255 chars.
Page Scrolling	Standard	Standard
Display Highlighting	None	Standard
Character Spacing Display	Standard	Standard
Line Justify Display	Standard	Standard
Underscore Display	Control characters	Standard
Sub/Superscript Display	Control characters	Standard
Stored Form Recall	Standard	Standard
Control Code Display	Standard	Standard
Format Statement Display	Standard	Standard
System Status Information Display	Continuous: character, line, and page locations; edit ruler. Operator-selected disk space available.	Continuous: character, line, and page locations; edit ruler. Operator-selected: disk space available.
PRINTER STATION FEATURES		
Printer Type & Speed	Diablo daisy 45 cps (1640/1650); Qume daisy 55 cps (Sprint 5); NEC thimble 55 cps (5510/5520); standard ASCII printers 150 cps	Diablo daisy 45 cps (1640/1650); Qume daisy 55 cps (Sprint 5); NEC thimble 55 cps (5510/5520); standard ASCII printers 150 cps
Character Pitch/Spacing	10/12/15	10/12/15
Writing Line Width	13″ (Qume/Diablo); 14.2″ (NEC)	13″ (Qume/Diablo); 14.2″ (NEC)
Carriage Paper Width	15″ (Qume/Diablo; 16.2″ (NEC)	15″ (Qume/Diablo); 16.2″ (NEC)
First-Line Forms Advance	Standard	Standard
End-of-Page Stop	Standard	Standard
Justified Printout	Standard	Standard
Bold Printout	Standard (overstrike or offset)	Standard (overstrike or offset)
Sub/Superscript Printout	Standard	Standard
Non-Adjust Printout	Standard	Standard
Bidirectional Printout	Standard	Standard
Simultaneous Printout	Standard	Standard
Page Location Start/Stop Control	Standard	Standard
Number of Copies Control	Standard	Standard
GENERAL FUNCTIONAL FEATURES		
Media-Stored Format	Standard	Standard
Default Format Statement	Standard	Standard
Machine Dialog/Menu Prompt	Standard	Standard
Forms Fill-In	Standard	Standard
Printout Queuing	Standard	Standard
Revision & Status Reporting	Standard	Standard
System Security	Password for files	Password for files



Users can view underlining, sub- and superscripts, boldface highlighting, and margin and end-of-page lines on Omega full-page display.

HARDWARE FEATURES AND SPECIFICATIONS

	Omega 20	Omega 60
DIMENSIONS		
Height of Computer	17 cm. (6.75″)	17 cm. (6.75″)
Width of Computer	45 cm. (17.75″)	45 cm. (17.75″)
Depth of Computer	42.5 cm. (16.75″)	42.5 cm. (16.75″)
Weight of Computer	14 kg. (30 lb.)	14 kg. (30 lb.)
Height of Display	25 cm. (9.75″)	37.75 cm. (14.87″)
Width of Display	35 cm. (13.75″)	35 cm. (13.75″)
Depth of Display	42.5 cm. (16.75″)	42.5 cm. (16.75″)
Weight of Display	7 kg. (15 lb.)	27.3 kg. (60 lb.)
Height of Keyboard	7 cm. (2.75″)	7 cm. (2.75″)
Width of Keyboard	45 cm. (17.75″)	45 cm. (17.75″)
Depth of Keyboard	21 cm. (8.25″)	21 cm. (8.25″)
Weight of Keyboard	3 kg. (7 lb.)	3 kg. (7 lb.)
POWER & ENVIRONMENTAL		
Energy Requirements	Switch selectable: 90-130, 200-240 volts, 50/60 Hz., 100 watts	
Operating Temperatures	10° C to 40° C (50° F to 104° F)	
Non-Operating Temperatures	-40° C to 65° C (-40° F to 150° F)	
KEYBOARD		
Key Layout	Standard key layout for ease of operator training. Numeric key pad for rapid entry of numeric data. Twenty multiple-level user-definable function keys.	

TEXT INPUT FEATURES		
Auto Carrier Return	Standard	Standard
Auto Word Wraparound	Standard	Standard
Auto Margin Adjust	Standard	Standard
Temporary Margins	Standard	Standard
Auto Decimal Tab	Standard; also tab alignment on any other character	Standard; also tab alignment on any other character
Hyphenation	Scan before print; adjustable hot zone; protected and ghost hyphens	Scan before print; adjustable hot zone; protected and ghost hyphens
Auto Input Underline	Standard	Standard
Auto Centering	Standard	Standard
Auto Line Spacing	Standard	Standard
Auto Page Numbering	Standard (six locations)	Standard (six locations)
Auto Headers/Footers	Standard	Standard
Auto Pagination	Standard	Standard
TEXT EDIT & MERGE FEATURES		
Paragraph Assembly/Merge	Stored text assembled and merged with key-boarded text	Stored text assembled and merged with key-boarded text
Selective-Attribute Mailing List/Merge	Standard	Standard
Search Capability	By character string	By character string
Delete Capability	C, W, L, P, specified block	C, W, L, P, specified block
Global Search & Replace	Next occurrence only and global	Next occurrence only and global
Block Move/Copy	Standard	Standard
Auto Repagination	Standard	Standard
Auto WidowAdjust	Standard	Standard
Auto File Select	Standard	Standard
COMMUNICATIONS		
Availability	Optional	Optional
Format & Speed	Full-duplex asynch. ASCII and synchronous	Full-duplex asynch. ASCII and synchronous
EDP CAPABILITY		
Multiprogramming	Standard	Standard
Compilers	Extended BASIC	Extended BASIC
Applications Software	Accounting, finance and insurance, others	Accounting, finance and insurance, others
AVAILABILITY	30 days ARO	December 1979
PRICE	Dealer inquiry	Dealer inquiry
REMARKS	International character set and special utility program allow systems to be operated in multiple languages.	

Action	Full alpha, high-quality, rugged, excellent feel. Keeps up with the fastest typist.
DISPLAY	
General	Modular; can be place in most convenient location. Optional tilting mechanism achieves best viewing angle, eliminates glare from ambient light sources. Large characters are crisp and easy to read. Character set includes full upper and lower case ASCII chacters and punctuation marks, plus most European characters. Math and graphic symbols also.
Format	20 lines x 80 chars. 60 lines x 80 chars.
MEMORY	
Internal	60K fast internal semiconductor memory.
Diskettes (Built-In)	Two high-reliability mini-diskette drives. Capacity: 160,000 bytes per drive (user specified). Media measure 5.25″ square.
Rigid Disks (Optional)	One or two removable cartridge disks, each 9.63 million bytes (formatted). High speed for fast access and transfer of data. 3600 RPM, 15 ms. track to track, 75 ms. average positioning 917K bytes/second to/from buffer, 95K bytes/second to/from memory. Buffered controller for efficient data handling. Quiet operation, designed for the office environment. Multiple removable cartridges make backup easy. Media fully protected against dust and contanination. Compact media measure 28 cm. x 28 cm. x 2.5 cm. (11″ x 11″ x 1″).
PRINTER INTERFACE (BUILT-IN)	Accommodates most serial input printers.
PRINTERS	Supports the Diablo 1640 and 1650 (45 cps, daisy mechanism), the Qume Sprint 5 (55 cps, daisy mechanism), the NEC 5510 and 5520 (55 cps, thimble mechanism), and most other ASCII serial printers (150 cps.) Multiple type fonts, 10, 12, 15 characters per inch. Up to 162 columns wide. 6 and 8 lines per inch. Optional snap-on tractor feed. Friction feed for single sheets. Extensive forms control and tabbing features. Built-in self test. Bidirectional printing on Diablo, Qume, and NEC printers.
PLUG-IN INTERFACES (OPTIONAL)	
Communications	Dual and quad EIA RS-232C (V.24) serial communications. Asynchronous to 9,600 baud. Synchronous to 38,000 baud. Half or full duplex operation. Programmable.
Others	• IEEE-488 Instrumentation Bus • 32-Line Parallel Interface • External Bus Extender • Centronics-and Diable-Type Parallel Printer Interface

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lines, and toggle-switch choice of either white characters on a dark background or vice versa.

Interchangeable Displays

The 20-line and 60-line displays are completely interchangeable, plugging in to the rear of the Omega unit in a matter of minutes. The Omega 60 offers users with heavy editing requirements the ultimate in word processing displays. On the other hand, users with high-volume text input requirements will find the lower cost Omega 20 an extremely cost-effective solution to their text processing needs.

Documents created on the Omega may be edited on either size display without reformatting when switching from one display to another. In offices with more than one system, users may find it both economical and convenient to mix a few Omega 60s with a majority of Omega 20s, doing document creation on the partial-page systems and reserving revisions and final editing for the full-page machines.

Choice of Disk Capacity

Omega also offers users a range of disk-capacity alternatives. Both the Omega 20 and 60 feature single-sided mini-floppy diskettes for data storage. Users may order a system with single-density diskettes (approximately 152 pages each).

Systems ordered with dual-density drives will also accommodate two additional external diskette drives, for a total capacity of more than 600 pages (about 1.2 million characters). The external unit can be plugged in any time in just minutes.

For applications requiring the on-line storage of thousands of pages of text, Compucorp offers a rigid-disk option. Users may add one or two removable cartridge disks, each having a capacity of 9.6 million characters (about 4,700 pages), to increase the system's total storage capacity to well over 20 million characters. The removable cartridges are well suited for word processing applications. They are fast, quiet, and compact, measuring only 11″ x 11″ x 1″. A number of cartridges can be accommodated easily in a desk drawer or even in a briefcase. □

OMEGA DEBUTS AT END OF MONTH IN GERMANY AND SCANDINAVIA

Compucorp's Omega word processor—both the partial-page Omega 20 and the full-page Omega 60—will be introduced almost simultaneously in the final days of October in West Germany and the Scandinavian countries. Press conferences in Stockholm and various cities in West Germany will serve as the backdrop for system introductions and demonstrations to businessmen and the press.

Omega will bow in France, Belgium, and Switzerland before the end of the year, with other Western European countries expected to follow shortly. Australian announcements will also take place before year's end.

Compucorp distributes its products through licensed, authorized dealers and distributors in the U.S., Canada, and 35 other countries.

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OTHER SOFTWARE FEATURES

Applications Library

Compucorp offers a growing number of applications, including business and scientific software. Business applications include accounting (General Ledger, Accounts Receivable, Accounts Payable, Payroll, Inventory Control, etc.), finance and insurance, mailing, automotive, and others. Scientific includes instrumentation, plotting, data acquisition, and others. Compucorp application packages are designed to be easy to learn and easy to use. All are professionally designed and implemented, well documented, and fully proven and reliable.

Extended BASIC

- Interpretive or compiled
- 12-digit precision floating point
- Variable string length
- Multi-dimensional arrays
- Long variable names
- Logical operators
- Interfaced to file management system
- Can call assembly language programs
- Can read/produce word processing files
- Full string manipulation capabilities
- Multi-statement user-defined functions
- Program chaining
- Access to 20 user-definable keys. Shifted, unshifted and control: 60 functions.
- Full CRT data manipulation and multi-mode control

Communications

- Synchronous
- Asynchronous
- Device drivers

File Management System

- Direct, sequential, and random sequential access (RSAM) files
- Sort
- Full file utilities: copy, rename, read/write protection, automatic disk repacking

Disk Operating System

- Overlays to conserve memory
- Memory managers to make the best use of
- available memory
- Relocating loader
- Relocating macro assembler (for fast, efficient assembly language programming)
- Logical/physical I/O - device-independent
- Automatic start-up (for user ease)
- Command file saves time, reduces complexity
- Assembler, text editor, debugger, linking editor